

**10A NCAC 15 .1230 FACILITY OPERATION AND DISPOSAL SITE CLOSURE**

- (a) Wastes designated as Class A pursuant to Rule .1650 of this Chapter shall be segregated from other wastes by placement in disposal units which are sufficiently separated from disposal units for the other waste classes so that any interaction between Class A wastes and other wastes will not result in the failure to meet the performance objectives of this Section. This segregation is not necessary for Class A wastes if they meet the stability requirements in Rule .1651(b) of this Chapter.
- (b) Wastes designated as Class C pursuant to Rule .1650 of this Chapter shall be disposed of so that the top of the waste is a minimum of five meters below the top surface of the cover or shall be disposed of with intruder barriers that are designed to protect against an inadvertent intrusion for at least 500 years.
- (c) Wastes shall be emplaced in a manner that maintains the package integrity during emplacement, minimizes the void spaces between packages, and permits the void spaces to be filled.
- (d) Void spaces between waste packages shall be filled with earth or other material to reduce future subsidence within the fill.
- (e) Waste shall be placed and covered in a manner that limits the radiation dose rate at the surface of the cover to levels that at a minimum will permit the licensee to comply with all provisions of Rule .1611 of this Chapter at the time the license is transferred pursuant to Rule .1220 of this Section.
- (f) The boundaries and locations of each disposal unit shall be accurately located and mapped by means of land survey. Disposal units shall be marked in such a way that the boundaries of each unit can be easily defined. Three permanent survey marker control points, referenced to the North American Datum of 1983 (NAD83) and the current North American Vertical Datum (NAVD), as defined and maintained by the National Geodetic Survey, shall be established on the site to facilitate surveys. The three established control stations shall be positioned both horizontally and vertically by surveys tied to the NAD83 and NAVD as maintained in the North Carolina Geodetic Survey record files. All such surveys shall comply with standards and specifications in "Standards and Specifications for Geodetic Control Networks (September 1984)" and "Geometric Geodetic Survey Accuracy Standards and Specifications for Geodetic Surveys using GPS Relative Positioning Techniques" of the Federal Geodetic Control Committee, as approved by North Carolina Geodetic Survey.
- (g) A buffer zone of land shall be maintained between any buried waste and the disposal site boundary and beneath the disposed waste. The buffer zone shall be of adequate dimensions to carry out environmental monitoring activities specified in Rule .1231(c) of this Section and to permit mitigative measures if needed.
- (h) Closure and stabilization measures as set forth in the approved site closure plan shall be carried out as each disposal unit is filled and covered.
- (i) Active waste disposal operations shall not have an adverse effect on completed closure and stabilization measures.
- (j) Mixed waste is prohibited. The Radiation Protection Commission may waive the prohibition of disposal of mixed waste provided the Radiation Protection Commission determines that the following conditions are met:
  - (1) The disposal will conform to all other rules in this Section; and
  - (2) The disposal will conform to all requirements of the federal Low-Level Radioactive Waste Policy Amendments Act of 1985, G.S. 104E as amended, G.S. 130A Article 9 as amended, and regulations issued pursuant thereto.

*History Note: Authority G.S. 104E-7; 104E-10; 104E-25; 104E-26; 150B-19(6);  
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